

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.		50026/005002	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No.		Not yet Assigned	
				Applicant		Yoshiyuki Nagai et al.	
				Filing Date		December 1, 2000	
				Group			
				IDS Filed		December 1, 2000	
(37 CFR §1.98(b))							
U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
MM	5,166,057	11-24-92	Palese et al.				
↓	5,716,821	2-10-98	Wertz et al.				
MM	6,033,886	03-07-00	Conzelmann				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
MM	WO 96/10400	4-11-96	PCT				
↓	WO 97/41245	11-6-97	PCT				
↓ EP	WO 08/64645	9-16-98	PCT EP				
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
MM	M. Hamaguchi et al., "Transcriptive Complex of Newcastle Disease Virus," Virology 128: 105-117, 1983.						
↓	B. Gotoh et al., "An endoprotease homologous to the blood clotting factor X as a determinant of viral tropism in chick embryo," EMBO J. 9: 4189-4195, 1990.						
↓	T. Shioda et al., "Determination of the complete nucleotide sequence of the Sendai virus genome RNA and the predicted amino acid sequences of the F, HN and L proteins," Nucleic Acids Res. 14: 1545-1563, 1986.						
↓	H. Kido et al., "Molecular basis of proteolytic activation of Sendai virus infection and the defensive compounds for infection," Biol. Chem. 378: 255-263, 1997.						
↓	J. K. Ghosh et al., "A leucine zipper motif in the ectodomain of Sendai virus fusion protein assembles in solution and in membranes and specifically binds biologically-active peptides and the virus," Biochemistry 36: 15451-15462, 1997.						
↓	A. Kato et al., "Initiation of Sendai virus multiplication from transfected cDNA or RNA with negative or positive sense," Genes to Cells 1: 569-579, 1996.						
↓	A. Kato et al., "The paramyxovirus, Sendai virus, V protein encodes a luxury function required for viral pathogenesis," EMBO J. 16: 578-587, 1997.						
↓	A. Kato et al., "Importance of the cysteine-rich carboxyl-terminal half of V protein for Sendai virus pathogenesis," J. Virol. 71: 7266-7272, 1997.						
↓	M. Tashiro et al., "Involvement of the mutated M protein in altered budding polarity of a pantropic mutant, F1-R, of Sendai virus," J. Virol. 70: 5990-5997, 1996.						
EXAMINER				DATE CONSIDERED			
Misher				1-22-02			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.							

1c690 U.S. PTO
09/728207

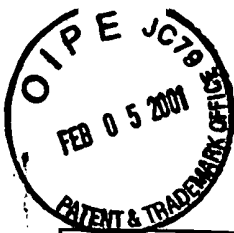
12/01/00

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR §1.98(b))		Attorney Docket No. 50026/005002 Serial No. Not yet Assigned Applicant Yoshiyuki Nagai et al. Filing Date December 1, 2000 Group IDS Filed December 1, 2000
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
<i>mm</i>	J. Curran et al., "The Sendai virus P gene expresses both an essential protein and an inhibitor of RNA synthesis by shuffling modules via mRNA editing," EMBO J. 10: 3079-3085, 1991.	
<i> </i>	J. Curran et al., "The hypervariable C-terminal tail of the Sendai paramyxovirus nucleocapsid protein is required for template function but not for RNA Encapsidation," J. Virol. 67: 4358-4364, 1993.	
	D. Garcin et al., "A highly recombinogenic system for the recovery of infectious Sendai paramyxovirus from cDNA: generation of a novel copy-back nondefective interfering virus," EMBO J. 14: 6087-6094, 1995.	
	C. Delenda et al., "Normal cellular replication of Sendai virus without the trans-frame, nonstructural V protein," Virology 228: 55-62, 1997.	
	D. Garcin et al., "A point mutation in the Sendai virus accessory C proteins attenuates virulence for mice, but not virus growth in cell culture," Virology 238: 424-431, 1997.	
	C. Tapparel et al., "Inhibition of Sendai virus genome replication due to promoter-increased selectivity: a possible role for the accessory C proteins," J. Virol. 71: 9588-9599, 1997.	
	K. H. Park et al., "Rescue of a foreign gene by Sendai virus," Proc. Natl. Acad. Sci. USA 88: 5537-5541, 1991.	
	K. H. Park et al., "In vivo model for pseudo-templated transcription in Sendai virus," J. Virol. 66: 7033-7039, 1992.	
	P. Calain et al., "The rule of six, a basic feature for efficient replication of Sendai virus defective interfering RNA," J. Virol. 67: 4822-4830, 1993.	
	P. Calain et al., "Molecular cloning of natural paramyxovirus copy-back defective interfering RNAs and their expression from DNA," Virology 191: 62-71, 1992.	
	P. Calain et al., "Functional characterisation of the genomic and antigenomic promoters of Sendai virus" Virology 212: 163-173, 1995.	
	G. Mottet et al., "A Sendai virus vector leading to the efficient expression of mutant M proteins interfering with virus particle budding" Virology 221: 159-171, 1996.	
	F. Radecke et al., "The nonstructural C protein is not essential for multiplication of edmonston B strain measles virus in cultured cells" Virology 217: 418-421, 1996.	
	V.M. Hill et al., "A minor microtubule-associated protein is responsible for the stimulation of vesicular stomatitis virus transcription in vitro" J. General Virology 71: 289-298, 1990.	
<i>✓</i>	K. Mizumoto et al., "Protein factors required for in vitro transcription of Sendai virus genome" J. Biochem. 117: 527-534, 1995.	
EXAMINER <i>Koshi</i>		DATE CONSIDERED <i>1-22-02</i>
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50026/005002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Serial No.	Not Yet Assigned
		Applicant	Yoshiyuki Nagai et al.
		Filing Date	December 1, 2000
		Group	
		IDS Filed	December 1, 2000
(37 CFR §1.98(b))			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)			
MM	T. Takagi et al., "In vitro mRNA synthesis by Sendai virus: isolation and characterization of the transcription initiation complex" J. Biochem. 118: 390-396, 1995.		
	S. A. Moyer et al., "Tubulin: A factor necessary for the synthesis of both Sendai virus and vesicular stomatitis virus RNAs" Proc. Natl. Acad. Sci. USA 83: 5405-5409, 1986.		
	R. Chandrika et al., "Mutations in conserved domain I of the Sendai virus L polymerase protein uncouple transcription and replication" Virology 213: 352-363, 1995.		
	S. M. Horikami et al., "The Sendai virus C protein binds the L polymerase protein to inhibit viral RNA synthesis" Virology 235: 261-270, 1997.		
	W. J. Neubert et al., "Transient rescue of Sendai-6/94 cl virus from the persistently infected cell line CI-E-8 by cocultivation" Virology 125: 445-453, 1983.		
	M. Sigmund et al., "Simple method for rapid and highly sensitive detection of antiviral-antibodies in serum and cerebrospinal fluid of small laboratory animals" Journal of Virological Methods 22: 231-238, 1988.		
	H. Einberger et al., "Purification, renaturation, and reconstituted protein kinase activity of the Sendai virus large (L) protein: L protein phosphorylates the NP and P proteins in vitro" J. Virol. 64: 4274-4280, 1990.		
	H. E. Homann et al., "Sendai virus gene expression in lytically and persistently infected cells" Virology 177: 131-140, 1990.		
	H. E. Homann et al., "Sendai Virus protein-protein interactions studied by a protein-blotting protein-overlay technique: mapping of domains on NP protein required for binding to P protein" J. Virol. 65: 1304-1309, 1991.		
	W. Willenbrink et al., "Long-term replication of Sendai virus defective interfering particle nucleocapsids in stable helper cell lines" J. Virol. 68: 8413-8417, 1994.		
	C. J. Buchholz et al., "The conserved N-terminal region of Sendai virus nucleocapsid protein NP is required for nucleocapsid assembly" J. Virol. 67: 5803-5812, 1993.		
	P. L. Collins et al., "Rescue of synthetic analogs of respiratory syncytial virus genomic RNA and effect of truncations and mutations on the expression of a foreign reporter gene" Proc. Natl. Acad. Sci. USA 88: 9663-9667, 1991.		
	P. L. Collins et al., "production of infectious human respiratory syncytial virus from cloned cDNA confirms an essential role for the transcription elongation factor from the 5' proximal open reading frame capability for vaccine development" Proc. Natl. Acad. Sci. USA 92: 11563-11567, 1995.		
	A. P. Durbin et al., "Recovery of infection human parainfluenza type 3 from cDNA" Virology 235: 323-332, 1997.		
↓	A. P. Durbin et al., "Minimum protein requirements for transcription and RNA replication of a minigenome of human parainfluenza virus type 3 and evaluation of the rule of six" Virology 234: 74-83, 1997.		
EXAMINER <i>Nishin</i>		DATE CONSIDERED 1-22-02	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.			

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR §1.98(b))		Attorney Docket No. 50026/005002 Serial No. Not yet Assigned Applicant Yoshiyuki Nagai et al. Filing Date December 1, 2000 Group IDS Filed December 1, 2000
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
MM	A. Bukreyev et al., "Recombinant respiratory syncytial virus from which the entire SH gene has been deleted grows efficiently in cell culture and exhibits site-specific attenuation in the respiratory tract of the mouse" J. Virol. 71: 8973-8982, 1997.	
	K.-K. Conzelmann et al., "Genetic engineering of animal RNA viruses" Trends in Microbiology 4: 386-393 1996.	
	M. J. Schnell et al., "Infections rabies viruses from cloned cDNA" EMBO J. 13: 4195-4203, 1994.	
	K. Tanabayashi et al., "Functional interaction of paramyxovirus glycoproteins: Identification of a domain in sendai virus HN which promotes cell fusion" J. Virol. 70: 6112-6118, 1996.	
	L. S. Tsimring et al., "RNA virus evolution via a fitness-space model" Physical Review Letters 76: 4440-4443, 1996.	
	E. Domingo et al., "Basic concepts in RNA virus evolution" FASEB J. 10, 859-864, 1996.	
	P. Palese, "Genetic engineering of infectious negative-strand RNA viruses" Trends in Microbiology 3: 123-125, 1995.	
	P. Palese et al., "Negative-strand RNA viruses: Genetic engineering and applications" Proc. Natl. Acad. Sci. USA 93: 11354-11358, 1996.	
	T. Sakaguchi et al., "Expression of the HN, F, NP and M proteins of Sendai virus by recombinant vaccinia viruses and their contribution to protective immunity against sendai virus infections in mice" J. General Virology 74: 479-484, 1993.	
	J. L. Hurwitz et al., "Intranasal sendai virus vaccine protects African green monkeys from infection with human parainfluenza virus-type one" Vaccine 15: 533-540, 1997.	
	C. J. Buchholz et al., "The carboxy-terminal domain of sendai virus nucleocapsid protein is involved in complex formation between phosphoprotein and nucleocapsid-like particles" Virology 204: 770-776, 1994.	
	K. C. Gupta et al., "Lack of correlation between sendai virus P/C mRNA structure and its utilization of two AUG start sites from alternate reading frames: Implications for viral bicistronic mRNAs" Biochemistry 35: 1223-1231, 1996.	
	B.P. De et al., "Rescue of synthetic analogs of genome RNA of human parainfluenza virus type3" Virology 196: 344-348, 1993.	
	P. Latorre et al., "The various sendai virus C proteins are not functionally equivalent and exert both positive and negative effects on viral RNA accumulation during the course of infection" J. Virol. 72: 5984-5993, 1998.	
	K.-K. Conzelmann, "Genetic manipulation of non-segmented negative-strand RNA viruses" J. General Virology 77: 381-389, 1996.	
✓	B. P. De et al., "Reverse genetics of negative strand RNA viruses" Indian Journal of Biochemistry & Biophysics 31: 367-376, 1994.	
EXAMINER	Moh	DATE CONSIDERED 1-22-02
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR §1.98(b))		Attorney Docket No. 50026/005002 Serial No. Not yet Assigned Applicant Yoshiyuki Nagai et al. Filing Date December 1, 2000 Group IDS Filed December 1, 2000
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)		
MM	T. Tao et al., "Host range restriction of parainfluenza virus growth occurs at the level of virus genome replication" Virology 220: 69-77, 1996.	
	D. S. Lyles et al., "Complementation of M gene mutants of vesicular stomatitis virus plasmid-derived M protein converts spherical extracellular particles into native bullets shapes" Virology 217: 76-87, 1996.	
	A. Bridgen et al., "Rescue of a segmented negative-strand RNA virus entirely from cloned complementary DNAs" Proc. Natl. Acad. Sci. USA 93: 15400-15404, 1996.	
	M. M. Rolls et al., "Expression of additional genes in a vector derived from a minimal RNA virus" Virology 218: 406-411, 1996.	
	H. Kido et al., "Molecular basis of proteolytic activation of Sendai virus infection and defensive compounds for infection" Biol. Chem. 378: 255-263, 1997.	
	Nakanishi et al., "Sendai Virus as a Candidate of a New Type of Viral Vector", Dept. of Neurovirology Research Institute for Microbial Diseases, 1 page. <i>J. Cell. Biochem Suppl. 21A, p. C6-337, 1995</i>	
	Tuffreau et al., "Direct Adverse Effects of Sendai Virus DI Particles on Virus Budding and on M Protein Fate and Stability, Virology 162, 417-426, 1988.	
	Kondo et al., "Temperature-sensitive Phenotype of a Mutant Sendai Virus Strain is Caused by its Insufficient Accumulation of the M Protein", The Journal of Biological Chemistry, Vol. 268, No. 29, 21924-21930, 1993.	
	Stricker et al., "The Sendai Virus Matrix Protein Appears to be Recruited in the Cytoplasm by the Viral Nucleocapsid to Function in Viral Assembly and Budding", Journal of General Virology, 75, 1031-1042, 1994.	
	Gotoh et al., "Rescue of Sendai Virus from Viral Ribonucleoprotein-Transfected Cells by Infection with Recombinant Vaccinia Viruses Carrying Sendai Virus L and P/C Genes", Virology 171, 434-443, 1989.	
EXAMINER	<i>hoshu</i>	DATE CONSIDERED <i>1-22-02</i>
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		



Sheet 1 of 1

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney Docket No.

50026/005002

Serial No.

09/728,207

Applicant

Nagai Yoshiyuki et al.

Filing Date

December 1, 2000

Group

IDS Filed

February 1, 2001

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
MM	WO97/06270	Feb. 20, 1997	PCT			
L	EP0864645A1	Sept. 16, 1998	Europe			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

EXAMINER	<i>Wode</i>	DATE CONSIDERED	<i>1-22-02</i>
----------	-------------	-----------------	----------------

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.